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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently amended) An isolated Ikaros transcriptional control region comprising one or more Ikaros regulatory element <u>found in a lymphoid-specific DNaseI HSS cluster selected</u> from:
- a 9 kb BamHI fragment of a lymphoid-specific DNaseI hypersensitive site (HSS) of the mouse or human Ikaros locus (α cluster);
- a 5.9 kb BamHI/EcoRI fragment of a lymphoid-specific DNaseI HSS of the mouse or human Ikaros locus (β cluster);
- <u>a 5 kb EcoRI fragment of a lymphoid-specific DNaseI HSS of the mouse or human</u> <u>Ikaros locus (γ cluster);</u>
- a 4.2 kb EcoRI fragment of a lymphoid-specific DNaseI HSS of the mouse or human Ikaros locus (δ cluster);
- <u>a 11 kb BamHI fragment of a lymphoid-specific DNaseI HSS of the mouse or human Ikaros locus (ε cluster);</u>
- <u>a 13.5 kb EcoRI fragment of a lymphoid-specific DNaseI HSS of the mouse or human</u> <u>lkaros locus (ζ cluster);</u>
- <u>a 3.7 kb XbaI fragment of a lymphoid-specific DNaseI HSS of the mouse or human</u>
 <u>Ikaros locus (η cluster); and</u>
- 7.5 kb BamHI fragment of a lymphoid-specific DNaseI HSS of the mouse or human Ikaros locus (θ cluster).

2-6. (Canceled)

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7. (Currently amended) A construct comprising an Ikaros transcriptional control region of claim 1 and operably linked to a sequence encoding a reporter molecule.

- 8. (Original) The DNA construct of claim 7, wherein the reporter molecule is a reporter molecule which can luminesce or fluoresce.
- 9. (Original) The DNA construct of claim 7, wherein the reporter molecule is selected from a beta-galactosidase gene, a luciferase gene, a green fluorescent protein gene, an alkaline phosphatase gene, a horseradish peroxidase gene, and a chloramphenicol acetyl transferase gene.
- 10. (Original) The DNA construct of claim 7, wherein the reporter molecule is green fluorescent protein.
- 11. (Withdrawn) A transgenic animal, or cell or tissue therefrom, comprising a transgene includes an Ikaros transcriptional control region operably linked to a sequence which is functionally unrelated to the Ikaros gene.
 - 12. (Withdrawn) The transgenic animal of claim 11, wherein the animal is a rodent.
 - 13. (Withdrawn) The transgenic animal of claim 12, wherein the rodent is a mouse.
- 14. (Withdrawn) The transgenic animal of claim 11, wherein the Ikaros transcriptional control region includes one or more Ikaros regulatory element.
- 15. (Withdrawn) The transgenic animal of claim 11, wherein the Ikaros transcriptional control region comprises the J cluster or a functional fragment of the promoter of the J cluster.

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16. (Withdrawn) The transgenic animal of claim 11, wherein the Ikaros transcriptional control region comprises the K cluster or a functional fragment of the promoter of the K cluster.

- 17. (Withdrawn) The transgenic animal of claim 15, wherein the Ikaros transcriptional control region further comprises the K cluster or a functional fragment of the promoter of the K cluster.
- 18. (Withdrawn) The transgenic animal of any of claims 14, 15, or 16, wherein the Ikaros transcriptional control region further comprises one or more Ikaros regulatory element from the I cluster or a portion thereof, the M cluster or a portion thereof, the O cluster or a portion thereof, or the P cluster or a portion thereof.
- 19. (Withdrawn) The transgenic animal of claim 15, wherein the Ikaros transcriptional control region further comprises the M cluster or a portion thereof.
- 20. (Withdrawn) The transgenic animal of claim 19, wherein the Ikaros transcriptional control region comprises a portion of the M cluster.
- 21. (Withdrawn) The transgenic animal of claim 11, wherein the sequence functionally unrelated to the Ikaros gene encodes a reporter molecule.
- 22. (Withdrawn) The transgenic animal of claim 21, wherein the reporter molecule is a reporter molecule which can luminesce or fluoresce.
- 23. (Withdrawn) The transgenic animal of claim 21, wherein the sequence encoding the reporter molecule is selected from a beta-galactosidase gene, a luciferase gene, a green fluorescent protein gene, an alkaline phosphatase gene, a horseradish peroxidase gene, and a chloramphenicol acetyl transferase gene.

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24. (Withdrawn) The transgenic animal of claim 21, wherein the reporter molecule is green fluorescent protein or a variant thereof.

- 25. (Withdrawn) The transgenic animal of claim 24, wherein the reporter molecule is a variant of green fluorescent protein.
- 26. (Withdrawn) The transgenic animal of claim 25, wherein the variant of green fluorescent protein is selected from the group consisting of EGFP, EBFP, EYFP, d2EGFP, ECFP, and GFPuv.
- 27. (Withdrawn) The transgenic animal of claim 11, wherein the genome of the animal further comprises an alteration by disrupting at least one exon of the endogenous Ikaros gene.
- 28. (Withdrawn) The transgenic animal of claim 27, wherein the endogenous Ikaros gene is disrupted by insertion of a nucleic acid sequence.
- 29. (Withdrawn) The transgenic animal of claim 28, wherein the insertion results in any of an inversion, deletion, translocation, or reciprocal translocation.
- 30. (Withdrawn) The transgenic animal of claim 28, wherein the insertion is in or alters the sequence, expression, or splicing of one or more of the following exons: exon 1/2, exon 3, exon 4, exon 5, exon 6, and exon 7.
- 31. (Withdrawn) The transgenic animal of claim 28, wherein the insertion is in or alters the sequence, expression, or splicing of a DNA binding domain of the Ikaros gene.

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32. (Withdrawn) The transgenic animal of claim 28, wherein the insertion results in a deletion of portions of exon 3 and exon 4.

- 33. (Withdrawn) The transgenic animal of claim 28, wherein the animal is heterozygous for the insertion.
- 34. (Withdrawn) The transgenic animal of claim 28, wherein the animal is homozygous for the insertion.
- 35. (Withdrawn) The transgenic animal of claim 28, wherein the insertion is in a domain involved in transcriptional activation or in dimerization.
 - 36. (Withdrawn) The transgenic animal of claim 28, wherein the insertion is in exon 7.
- 37. (Withdrawn) The transgenic animal of claim 11, wherein the genome of the animal further comprises an alteration by disrupting at least one exon of the endogenous gene encoding a protein involved in hematopoiesis.
- 38. (Withdrawn) The transgenic animal of claim 37, wherein the endogenous gene is disrupted by insertion of a nucleic acid sequence.
- 39. (Withdrawn) The transgenic animal of claim 38, wherein the endogenous gene encodes Helios.
- 40. (Withdrawn) The transgenic animal of claim 38, wherein the endogenous gene encodes Aiolos.

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41. (Withdrawn) The transgenic animal of claim 38, wherein the insertion results in any of an inversion, deletion, translocation, or reciprocal translocation.

42. (Withdrawn) A method of evaluating the development of a component or a cell lineage of the immune system, comprising:

providing a transgenic animal of claim 11 or claim 37, or a cell or tissue therefrom; and monitoring expression of the protein unrelated to Ikaros.

- 43. (Withdrawn) The method of claim 42, wherein the sequence functionally unrelated to the Ikaros gene encodes a reporter molecule.
- 44. (Withdrawn) The method of claim 43, wherein the reporter molecule is a reporter molecule which can luminesce or fluoresce.
- 45. (Withdrawn) The method of claim 43, wherein the sequence encoding the reporter molecule is selected from a beta-galactosidase gene, a luciferase gene, a green fluorescent protein gene, an alkaline phosphatase gene, a horseradish peroxidase gene, and a chloramphenicol acetyl transferase gene.
- 46. (Withdrawn) The method of claim 43, wherein the reporter molecule is green fluorescent protein or a variant thereof.
- 47. (Withdrawn) The method of claim 46, wherein the reporter molecule is a variant of green fluorescent protein.
- 48. (Withdrawn) The method of claim 47, wherein the variant of green fluorescent protein is selected from the group consisting of EGFP, EBFP, EYFP, d2EGFP, ECFP, and GFPuv.

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49. (Withdrawn) The method of claim 43, wherein hematopoietic development is evaluated in a living animal.

- 50. (Withdrawn) The method of claim 49, wherein hematopoietic development is evaluated by detecting a fluorescent signal on the live animal.
- 51. (New) An isolated DNA comprising an Ikaros gene sequence amplifiable from human or mouse genomic DNA using the primer pair SEQ ID NO:29 and SEQ ID NO:30.
- 52. (New) A construct comprising the DNA of claim 51 operably linked to a sequence encoding a non-Ikaros protein.
- 53. (New) A construct comprising the DNA of claim 51 operably linked to a sequence encoding a reporter molecule.
- 54. (New) The construct of claim 54, wherein the reporter molecule is a reporter molecule that can luminesce or fluoresce.
- 55. (New) The construct of claim 54, wherein the reporter molecule is selected from a beta-galactosidase gene, a luciferase gene, a green fluorescent protein gene, an alkaline phosphatase gene, a horseradish peroxidase gene, and a chloramphenicol acetyl transferase gene.
- 56. (New) The construct of claim 54, wherein the reporter molecule is green fluorescent protein.